

Title (en)

Method to remove organic halogenated molecules from gaseous currents and relative plant

Title (de)

Verfahren und Vorrichtung zur Entfernung von organischen halogenierten Molekülen aus Gasströmen

Title (fr)

Méthode et dispositif pour l'élimination de molécules organiques halogénées de courants gazeux

Publication

**EP 0736321 B1 20010912 (EN)**

Application

**EP 96104573 A 19960322**

Priority

IT UD950062 A 19950407

Abstract (en)

[origin: EP0736321A1] Method to remove organic halogenated molecules from gaseous currents arriving as a residue of industrial working processes or not, the gaseous current being delivered into a reactor (16) containing a fluid bed consisting of at least one solid adsorbent element after having undergone at least one filtration followed by a cooling, the gaseous current cooperating with the solid particles with exchange by adsorption between the gaseous current and the solid particles, the reactor (16) achieving a time of contact between the gaseous current and the solid particles at least longer than 3 seconds, the gaseous current which enters the reactor (16) having a temperature lower than 80 DEG C., but advantageously between 30 DEG and 70 DEG C., the cooling of the gaseous current upstream of the reactor (16) being followed by a gas/water or gas/air heat exchanger (13). Plant to carry out the above method, in which the reactor (16) includes a first input zone (17) and a second zone of exchange by adsorption between the gaseous current and a solid support in the form of fluid-bed particles kept in suspension, means (18) to introduce and distribute the gaseous current being included and defining the second zone of the reactor (16), the reactor (16) having dimensions such as to achieve a passage time at least longer than 3 seconds, the concentration of solid support within the reactor (16) being between 0.1 and 0.5 kg per each cubic metre of gaseous substance. <IMAGE>

IPC 1-7

**B01D 53/70**; **B01D 53/12**

IPC 8 full level

**B01D 53/12** (2006.01); **B01D 53/70** (2006.01)

CPC (source: EP US)

**B01D 53/12** (2013.01 - EP US); **B01D 53/70** (2013.01 - EP US)

Cited by

CN106621583A; FR2887782A1; ITPR20100053A1; FR2785976A1; DE102016124706A1; WO2007003778A1; DE102015122230A1; WO2017101913A2

Designated contracting state (EPC)

AT BE DE ES FR GB IT SE

DOCDB simple family (publication)

**EP 0736321 A1 19961009**; **EP 0736321 B1 20010912**; AT E205414 T1 20010915; CA 2173288 A1 19961008; DE 69615077 D1 20011018; DE 69615077 T2 20020307; ES 2163544 T3 20020201; IT 1289574 B1 19981015; IT UD950062 A0 19950407; IT UD950062 A1 19961007; MX 9601306 A 19970430; PL 313653 A1 19961014; US 5725635 A 19980310

DOCDB simple family (application)

**EP 96104573 A 19960322**; AT 96104573 T 19960322; CA 2173288 A 19960402; DE 69615077 T 19960322; ES 96104573 T 19960322; IT UD950062 A 19950407; MX 9601306 A 19960403; PL 31365396 A 19960405; US 62826796 A 19960405